Applications

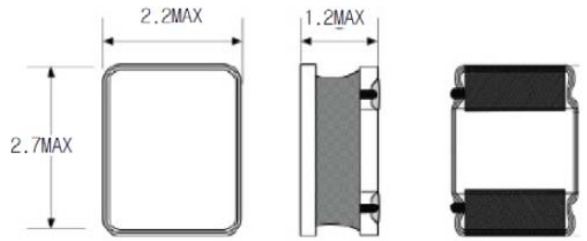
-. Automotive Electronics
-. LED Drive Module
-. Buck, Boost & Forward Converter Etc.
-. Noise Filtering Chokes

Picture

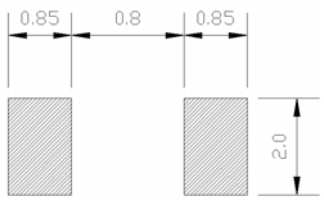
Environmental data

-. Operating temperature range : -40℃ to +125℃ (Including self-temperature rise)
-. Storage temperature range : -40℃ to +125℃

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.①	L(uH)②	DC Resistance(mΩ)③		Isat(A)④	Irms(A)⑤
		TYP	MAX	TYP	TYP
KOU2512S-R33N	0.33		31	4.00	3.35
KOU2512S-R47N	0.47		61	3.82	2.15
KOU2512S-R68N	0.68		74	3.28	1.95
KOU2512S-1R0N	1.0		90	2.59	1.93
KOU2512S-1R5N	1.5		147	2.24	1.40
KOU2512S-2R2N	2.2		216	1.85	1.15
KOU2512S-3R3M	3.3		264	1.61	1.04
KOU2512S-4R7M	4.7		377	1.12	0.84
KOU2512S-5R6M	5.6		538	1.11	0.73
KOU2512S-6R8M	6.8		581	0.98	0.69
KOU2512S-8R2M	8.2		658	0.97	0.65
KOU2512S-100M	10.0		690	0.79	0.62
KOU2512S-150M	15.0		1591	0.68	0.42
KOU2512S-220M	22.0		1976	0.53	0.38

Remarks

1. Inductance Tolerance : N → 30%, M → 20%
2. Test frequency : at 100KHz, 1.0Vrms
3. DC resistance : Reference ambient temperature 25°C
4. I sat : Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value (Reference ambient temperature 25°C)
5. I rms : DC current for an approximate temperature rise of 40 °C without core loss.
   Temperature rise is highly dependent on many factors including P.C.B land pattern, trace size, and proximity to other components.
   Therefore temperature rise should be verified in application conditions.
6. Quantity/reel : 2,000 PCS